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PROFESSIONAL STANDARD

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AQ 1015-2005

Safety Inspecting-testing Specification of In-service Winder System for Coal Mine

煤矿在用缠绕式提升机系统安全检测检验规范

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AQ 2015-2005

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1 Scope

This standard specifies safety testing/inspecting items and their technical requirements for in-service winder system for coal mine (mine drum winder).

This standard is applicable to onsite testing and inspecting for in-service winder system for coal mine (including in-service winder hoist with barrel diameter 1.6m or above).

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties whose enter into agreement according to this Standard are encouraged to research whether the latest editions hereof are applied or not. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable.

GB/T 3768-1996 Acoustics - Determination of Sound Power Levels of Noise Sources Using Sound Pressure - Survey Method Using an Enveloping Measurement Surface over a Reflecting Plane (MOD ISO 3746: 1994)

JB 2646-92 Single-rope Mine Drum Hoist

JB 3277-91 Hydraulic Station for Mine Hoists and Mine Hoisting Winches

JB 8516-1997 Mine Hoists and Mine Hoisting Winch - Safety Requirements

JB 8519-1997 Mine Hoist and Mine Hoisting Winch - Disc Brake

JB 8918-1999 Hydraulic Anti-explosive Mine Hoists and Mine Winders - Safety Requirements

"Safety Regulations in Coal Mine" (Edition 2004)

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3 Basic Requirements on Inspection

3.1 The inspected winder system for mine shall be able to run normally as required by "Safety Regulations in Coal Mine".

3.2 Mine drum winder shall be the product conforming to the requirements on technical and safety performance specified by JB 2646 and JB 8516.

3.3 Hydraulic anti-explosive mine hoist and lifting winch shall also be the product conforming to the requirements on safety performance specified in JB 8918.

4 Inspection Items and Technical Requirements

4.1 Machine Room

4.1.1 The machine room shall be equipped with complete lighting facilities, providng enough light and proper illumination, as well as emergency lighting facilities.

4.1.2 The noise level in workplace shall not be higher than 85 dB(A) according to GB/T 3768. Where the nose level is higher than 85 dB (A), the staffs need wear personal protective devices; where higher than 90 dB (A), the measures to reduce noise in workplace shall be taken.

4.1.3 The temperature and humidity in machine room shall meet the industrial hygiene standards and the environment requirements for the equipment.

4.1.4 The machine room shall be equipped with fire-fighting facilities, and the equipment shall be arranged with barrier shielding and warning board.

4.1.5 Braking system diagram, electric system diagram and technical features for lifting device shall be hung in the hoist machine room.

4.1.6 The exposed rotating components, such as coupling and exposed gear, shall be arranged with fixed protective device.

4.1.7 In a vertical shaft, the maximum loading and maximum load difference of the hoisting device, and the maximum man loading in a cage shall be announced at the shaft top.

4.2 Hoisting Device

4.2.1 The main axle and drum of the hoist, after being inspected, shall have no defect that reduces mechanical performance and service performance.

4.2.2 Where the drum is winded with two or more layers of steel wire ropes, it shall meet the following requirements:

a) The height of the drum rim higher than the outermost layer of steel wire rope shall be at least 2.5 times of the steel wire rope diameter; and

b) The drum shall be arranged with the pad (having grooving); the drum without drum shall be arranged with grooving on the drum plate or winded with a layer of wire as bottom rope.

4.2.3 The number of steel wire rope layers winded on a drum:

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